<u>INTRODUCTION</u>

Plaintiffs seek to preclude Defendant JLI's expert Jeffrey Arnett, a developmental psychologist, from testifying regarding the health risks presented by JUUL use, including the risks presented by JUUL use as compared to those presented by smoking combustible cigarettes, and from suggesting that Plaintiffs' experts are contributing to a public health crisis through their participation in this litigation.

LEGAL STANDARD

To be admissible, expert testimony must (1) "help the trier of fact to understand the evidence or to determine a fact in issue," (2) be "based on sufficient facts or data," (3) be "the product of reliable principles and methods," and (4) "reliably appl[y] the principles and methods to the facts of the case." Fed. R. Evid. 702.

Only relevant and reliable expert opinion testimony is admissible. *See Daubert v. Merrell Dow Pharm.*, 509 U.S. 579, 589, 113 S.Ct. 2786, 125 L.Ed.2d 469 (1993). Expert testimony is reliable "if the knowledge underlying it has a reliable basis in the knowledge and experience of the relevant discipline." *Primiano v. Cook*, 598 F.3d 558, 565 (9th Cir. 2010). The court's "task ... is to analyze not what the experts say, but what basis they have for saying it." *Daubert v. Merrell Dow Pharmaceuticals, Inc.*, 43 F.3d 1311, 1316 (9th Cir. 1995) (*Daubert II*). Expert testimony must "relate to scientific, technical, or other specialized knowledge, which does not include unsubstantiated speculation and subjective beliefs." *Cooper v. Brown*, 510 F.3d 870, 942 (9th Cir. 2007).

In determining whether to allow expert testimony, a court may consider whether the expert is testifying "about matters growing naturally" out of their own independent research, or if "they have developed their opinions expressly for purposes of testifying." *Daubert II*, 43 F.3d 1311 at 1317. Regardless of an expert's credentials, where "there is simply too great an analytical gap between the data and the opinion proffered," a court cannot permit the expert to testify. *Rodman v. Otsuka Am. Pharm., Inc.*, No. 20-16646, 2021 WL 5850914 (9th Cir. Dec. 9, 2021) (quoting *General Elec. Co. v. Joiner*, 522 U.S. 136, 146 (1997)).

The burden is on the proponent of the expert testimony to show, by a

1	preponderance of the evidence, that the admissibility requirements are satisfied. Lust By &		
2	Through Lust v. Merrell Dow Pharm., Inc., 89 F.3d 594, 598 (9th Cir. 1996); see also Fed. R.		
3	Evid. 702 Advisory Committee Notes. The Court's gatekeeping role in assessing relevance and		
4	reliability of expert testimony is "vital to ensure accurate and unbiased decision-making by the		
5	trier of fact." <i>Cooper</i> , 510 F.3d 870 at 943.		
6	<u>ARGUMENT</u>		
7	Dr. Arnett is a developmental psychologist. Ex. A, Arnett Dep. at 35:16-22. He is		
8	not a toxicologist and readily admits he has "no expertise in toxicology." <i>Id.</i> at 241:18-25 ("I		
9	don't claim to have expertise in toxicology[.]"). He nevertheless offers opinions on the relative		
10	health risks of JUUL and combustible cigarettes and repeatedly volunteered at deposition that he		
11	had "read a lot about the relative effects on health[,]" id., and considers "the vast difference in		
12	health effects and the potential of ENDS products for harm reduction" to be a "key part" of his		
13	testimony. <i>Id.</i> at 243:11-20.		
14	Dr. Arnett has testified many times in cases brought against the major domestic		
15	cigarette manufacturers, particularly on the subject of youth marketing. His opinions in this case		
16	are summarized in his report as follows:		
17 18	 "Plaintiffs' experts have not shown that JUUL's product design and marketing actually appealed to youth or increased youth appeal of JUUL products; 		
19 20	JLI did not follow Big Tobacco's advertising "playbook" in terms of how it marketed its products, and JLI's marketing differed from prior Big Tobacco marketing efforts in several key respects;		
21 22	JLI has taken affirmative steps to curb youth access to JUUL products, another departure from Big Tobacco's "playbook"; and		
23 24	 Adolescents are more likely than adults to try and use substances like nicotine due to developmental factors particular to the adolescent developmental stage." 		
25	Ex. B, Arnett Rpt. at 3.		
26	Notably and appropriately absent from this summary is any mention of the		
27	toxicological profile of JUUL aerosols or the potential health effects of using JUUL.		
28	Nevertheless. Dr. Arnett's report is laced with comments on both subjects, and he repeatedly		

1 injected these issues into deposition testimony regardless of the questions actually asked of him 2 (as detailed below). 3 Plaintiffs seek to preclude Dr. Arnett from testifying regarding: (1) the chemical or 4 toxicological profile of JUUL e-liquids or aerosols (beyond the fact that they contain the 5 addictive chemical nicotine, which is pertinent to some of his opinions concerning adolescent 6 psychology); (2) the toxicity of JUUL aerosol, standing alone or relative to the toxicity of 7 cigarette smoke; and (3) the potential short-term and long-term health hazards posed by use of 8 JUUL, standing alone or relative to the hazards posed by use of combustible cigarettes. Plaintiffs 9 also seek to exclude Dr. Arnett's blanket ad hominem attacks on Plaintiffs' experts, as detailed 10 below. This includes the following opinions set forth in Dr. Arnett's report (although omitted 11 from his summary of his opinions), each of which is beyond his expertise in 12 adolescent/developmental psychology: 13 "JLI's product does, indeed, contain nicotine, but its product was specifically designed to and did reduce the harms associated with combustible cigarettes for 14 longtime smokers[.]" Ex. B at 11 (citing nothing) (emphasis added). 15 "Recent public health and scientific evidence shows that e-cigarettes like JUUL dramatically reduce harmful chemicals and other health harms attributable to 16 combustible cigarettes." Id. at 13 & n.37 (citing defense expert Jack Henningfield's class deposition, defense expert Dennis Paustenbach's class report, 17 and two scientific articles). 18 "I understand JLI also made a much safer product than combustible cigarettes, with 'substantially fewer' long-term health effects.... JLI designed a more 19 expensive product that had safety redundancies and that 'incorporate[s] several consumer protections, including sophisticated temperature control system which is 20 optimized to maintain the temperature needed for optimal vaporization and to avoid combustion and generation of smoke." *Id.* at 15 & n.47 (quoting Adam 21 Bowen's deposition). 22 "JUUL ENDS ... do not contain most of the toxins that are in cigarettes and cigarette smoke." Id. at 16 & n.49 (quoting Jack Henningfield's class expert 23 report). 24 "There is a growing scientific consensus that e-cigarettes like JUUL are in fact much less harmful compared to combustible cigarettes." *Id.* at 35-36 (citing 25 nothing). 26 In deposition, Dr. Arnett went much further and repeatedly (even when no question was pending) 27 berated Plaintiffs' experts for subverting public health by claiming that JUUL poses the same or 28 greater risks to health than combustible cigarettes (an inaccurate representation for which Dr.

1	Arnett could cite no specific testimony or opinions from Plaintiffs' experts). Below are just two			
2	examples from Dr. Arnett's deposition that reveal what may be expected at trial if he is not reined			
3	in—namely, nonresponsive pontification on JUUL's purported harm reduction while			
4	categorically vilifying Plaintiffs' experts:			
5	18 19	Q. You don't have any you don't claim to have expertise in toxicology, right?		
6	20 21	A. No, I don't have I don't claim to have expertise in toxicology, but		
7	22 23	I've read a lot about the relative effects on health and and mortality for cigarettes		
8	24 25	versus ENDS products, and it's a dramatic difference.		
9	1	For example, I read the FDA decision on Vuse cigarettes Vuse, excuse		
10	2 3 4	me, ENDS products that came out recently and also JUUL's submission to the FDA regarding		
11	5	their products. Those were both very		
12	7 8	informative and comprehensible for me in terms of the relative health effects of ENDS		
13	9 10	products versus cigarettes, the dramatic difference between them, which I think is		
14	11 12	another thing that MS. LONDON: Doctor, I have to		
15	13 14	stop you THE WITNESS: No, no. I get to		
16	15 16	finish my answer. Excuse me. Thank you. I get to answer however I wish,		
17	17 18	and you know that. That's another thing that your		
18	19 20	experts avoid. They want to talk about cigarettes and ENDS products as		
19	21 22	if they have the same health effects and they're equally damaging to		
20	23 24	health. They never they never		
21	25 1	acknowledge that ENDS products are effective for harm reduction on people		
22	2 3	who who otherwise are addicted to nicotine, and to me, that's a key		
23	4 5	issue. So I do understand that. I		
24	6 7	have read that scientific information, and I believe I understand it well,		
25	8 9	and I've I trust the reports and the judgment of the people who have		
26	10 11	reported on those topics. And then to me, that's an		
27	12 13	important part of what I'm doing, is trying to draw that distinction		
28	14	between cigarettes and ENDS products,		

Case 3:19-md-02913-WHO Document 2727 Filed 12/31/21 Page 6 of 11

1	15 16	both in the marketing and in marketing and advertising, and in the
2	17 18	vast difference in the health effects and the potential of ENDS products for
3	19	harm reduction. That's a key part of
4	20	this for me.
5	Ex. A at 241:18-243:20.	
6	24 25	Q. I'm just asking you straight up: In 2017, how much did cigarette smoking
7	1	decline in this country among kids?
8	2 3 4 5	A. That's I don't know the tenth of percentage of what it was, and in
9		any case, there are different sources used for those data.
10	6 7	So what we know is what I've discussed previously, which is that it's gone
11	8 9	down steadily since 1998 and it's lower now than it's ever been.
12	10 11	Q. All right. And then A. It continues to decline
13	12 13	excuse me. It's continued to decline since use of ENDS products became prevalent. In
14	14 15	fact, as Balfour and colleagues describe in that article, the decline has been even
15	16 17	steeper since ENDS products have become popular among adolescents.
16	18 19	So their argument in that article, which I agree with and I think is
17	20 21	very well founded, is that most of the adolescent use of ENDS product has come at
18	22 23	the expense of cigarettes. And because it's because
	24	ENDS products are so dramatically less
19	25 1	damaging to health, that's something that should be regarded as a favorable
20	2 3	development. And that the scare tactics that
21	4 5	are being used by people like your experts that make it sound like use of ENDS products
22	6 7	is as bad or worse than the use of cigarettes is really damaging, is damaging the public
23	8	health to create a boogeyman of use of ENDS products that doesn't exist.
24	10 11	It's not founded on science. It's based on conflating the health effects
25	12 13	with cigarettes with the health effects of
26	13 14 15	vaping, which are not at all comparable. MS. LONDON: All right, Doctor. I
27	16	A. The result of it is damage
28	17 18	the result of what your experts are doing is to damage public health.

PLAINTIFFS' *DAUBERT* MOTION TO PRECLUDE TESTIMONY BY J. ARNETT RE: HEALTH RISKS OF JUUL USE CASE NO. 19-MD-02913-WHO

1	19 MS. LONDON: Doctor,		
2	respectfully 21 A. I'm sure that's not how they		
	see it. I'm sure that's not how they		
3	believe what they believe they're doing, but the fact is, that's the end result of it,		
4	 is to damage public health by creating these unfounded, unverified, false fears about the 		
5	health effects of vaping. It's very		
6	health effects of vaping. It's very unfortunate. And Balfour and colleagues, who don't take a side, who aren't testifying on		
7	 behalf of expert of plaintiffs or defendants in this case, whose may whose 		
8	8 interest is solely in public health, that's 9 what they conclude.		
9	what they conclude.		
10	<i>Id.</i> at 235:24-238:9.		
11	Dr. Arnett gave a virtually identical speech on several additional occasions during		
12	his deposition. See id. at 157:12-160:25 (no question pending); 223:4-224:25 (no question		
13	pending); 244:5-245:2; 250:23-253:5 255:5-256:2; 256:11-257:9.1		
14	Dr. Arnett's non-responsive speeches are inappropriate for a host of reasons, not		
15	the least of which is his lack of any qualifications to opine on the health risks posed by JUUL,		
16	either standing alone or in comparison to cigarettes. He does not know what chemicals are presen		
17	in JUUL aerosols and has made no effort to quantify or compare exposures between JUUL and		
18	cigarettes. Instead, he cites testimony by other defense experts (including public health expert		
19	Jack Henningfield and toxicology expert Dennis Paustenbach) and two articles, one of which		
20	refutes his opinion regarding data on long-term health effects, as discussed below. He cites no		
21	empirical support, conducted no independent assessment of the matter, and would not be qualified		
22	to do so in any event. As noted above, Dr. Arnett has no training in toxicology. <i>Id.</i> at 241:18-25.		
23	While he claims to have "read a lot" about the relative health risks of JUUL and combustible		
24	cigarettes, id. at 241:22, it is clear he knows very little:		
25	Dr. Arnett could not identify the ingredients in JUUL e-liquids beyond the		
26	fact that they contain nicotine, and he skirted the question by saying "[t]hat's not something that's part of the range of my testimony." <i>Id.</i> at 250:16-22. Yet, in the next response he said he "would be happy to testify		

 1 Judge Larson was called into the deposition and instructed the witness to stop giving such responses. *See* Ex. A at 257:10-258:3.

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PLAINTIFFS' *DAUBERT* MOTION TO PRECLUDE TESTIMONY BY J. ARNETT RE: HEALTH RISKS OF JUUL USE CASE NO. 19-MD-02913-WHO

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that your experts, unfortunately, like quite a few other people in public health, have vastly overblown the health dangers of ENDS products and completely ignored their harm-reduction potential. And consequently, they have fanned the hysteria in the general public that's really damaging." *Id.* at 251:4-11.

- He does not know any of the byproducts in JUUL aerosol (and, therefore, how they might compare to cigarettes) because that's "not an area of [his] expertise." *Id.* at 254:13-25.
- He doesn't know the safe levels (and, therefore, the unsafe levels) for any of JUUL's chemical constituents because he is "not an expert on chemical constituents of anything." *Id.* at 255:5-10.
- Despite the fact that he cites to JUUL's reduced delivery of "toxins" as compared to cigarette smoke, Ex. B at 16 & n.49, he believes that a 90% reduction of chemicals in a cigarette would not render them safe. Ex. A at 258:6-13.
- He "certainly" would testify that JUUL use has substantially fewer long-term health effects than smoking and claims there is "strong scientific evidence for that" *Id.* at 245:3-14. Yet he admits that he doesn't know the long-term health effects of using JUUL and he doesn't think anyone else knows. *Id.* at 247:7-17. When asked what data he has to support his opinion on JUUL's reduced long-term health effects, he cited one article, "the Balfour et al. 2021" paper², which he says is "the source of my opinions on that topic." *Id.* at 253:21-254:11. Not only is the Balfour paper not specific to JUUL, but it states unequivocally: "There are no data on long-term health effects, reflecting the relative novelty of vaping and the rapid evolution of vaping products." Ex. C at 1662 (emphasis added). Balfour also notes that "[h]igh-quality clinical and epidemiological data on vaping's health effects are relatively sparse" and that "[d]etermining even short-term health effects in adults is difficult[.]" *Id.*

Finally, at deposition, Dr. Arnett repeatedly excoriates Plaintiffs' experts for "conflating" JUUL with cigarettes in terms of their "health effects," which he deems damaging to public health. Without citing anything more than the Balfour paper discussed above, he repeatedly interjects *ad hominem* attacks on Plaintiffs' experts, often in non-responsive speeches. *Id.* at 44:11-14; 44:21-23 (no question pending); 158:22-160:25 (no question pending; calling it a "preposterous comparison" and "nonsense" that "has no basis in reality" and accusing Plaintiffs' experts of "pretend[ing] the two are exactly the same"); 162:2-21 (calling Plaintiffs' expert opinions "facile" and "far-fetched"); 236:10-238:9 (referring to "scare tactics that are being used by people like your experts" and damaging public health "by creating the unfounded, unverified,

² See Ex. C, David J. K. Balfour, et al., Balancing Consideration of the Risks and Benefits of E-Cigarettes, 111 Am. J. Public Health 9 (2021).

false fears about the health effects of vaping"); 244:5-24 (claiming Plaintiffs' experts "treat cigarettes as ENDS products as if they are identical" which is "misleading people" and "damaging to public health" by creating a "vast misunderstanding" regarding potential harm reduction); 252:9-253:12 (accusing Plaintiffs' expert of "conflating cigarettes and ENDS products," which is "baseless" and "extremely weak").

When asked to identify any Plaintiffs' expert who had said JUUL is as dangerous or more dangerous than cigarettes, Dr. Arnett named no one and retreated to a general accusation that it's "a theme in all the expert reports that I've read," which he deems "irresponsible and false." *Id.* at 329:14-330:16. Given Dr. Arnett's repeated accusations that Plaintiffs' experts were "mislead[ing]" people and damaging public health by "fann[ing] a public hysteria" and "grossly exaggerate[ing] the health harms of vaping," *id.* at 255:17-23, he was asked what public statements were made by any Plaintiffs' expert equating the harms of smoking and JUUL use. He could cite none and admitted he was "not talking about their public statements." *Id.* 331:3-332:12. Not to miss an opportunity, however, he added that by "eventually" giving "public testimony that distorts the public health picture, they're doing the public a disservice and they're damaging public health." *Id.* 332:13-333:1.

CONCLUSION

For the foregoing reasons, Plaintiffs respectfully request that the Court enter an Order precluding Dr. Arnett from testifying regarding the health risks presented by JUUL use, including the risks presented by JUUL use as compared to those presented by smoking combustible cigarettes, and engaging in unsubstantiated attacks on Plaintiffs' experts as causing or fanning the flames of a public health crisis.

Case 3:19-md-02913-WHO Document 2727 Filed 12/31/21 Page 10 of 11

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PLAINTIFFS' DAUBERT MOTION TO PRECLUDE TESTIMONY BY J. ARNETT RE: HEALTH RISKS OF JUUL USE CASE NO. 19-MD-02913-WHO

1	CERTIFICATE OF SERVICE
2	I hereby certify that on December 31, 2021, I electronically filed the foregoing
3	document with the Clerk of the Court using the CM/ECF system, which will automatically send
4	notification of the filing to all counsel of record.
5	By: /s/ Sarah R. London
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